

# MURS320



Surface Mount Rectifiers

**VOLTAGE RANGE: 400 --- 600 V**

**CURRENT: 3.0 A**



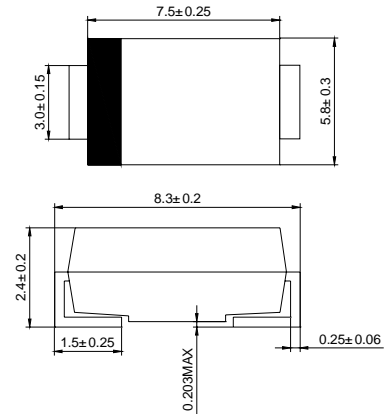
**DO-214AB(SMC)**

## Features

- ◇ Low cost
- ◇ Low leakage
- ◇ Low forward voltage drop
- ◇ High current capability
- ◇ Easily cleaned with Alcohol, Isopropanol and similar solvents
- ◇ The plastic material carries U/L recognition 94V-0

## Mechanical Data

- ◇ Case: JEDEC DO-214AB, molded plastic
- ◇ Polarity: Color band denotes cathode
- ◇ Weight: 0.007 ounces, 0.21 gram
- ◇ Mounting position: Any



Dimensions in millimeters

## MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate by 20%.

		MURS320	UNITS
Maximum recurrent peak reverse voltage	$V_{RRM}$	200	V
Maximum RMS voltage	$V_{RMS}$	140	V
Maximum DC blocking voltage	$V_{DC}$	200	V
Maximum average forward rectified current @ $T_L=130\text{ }^\circ\text{C}$	$I_{F(AV)}$	3.0	A
Peak forward surge current 8.3ms single half-sine-wave superimposed on rated load @ $T_J=125\text{ }^\circ\text{C}$	$I_{FSM}$	75	A
Typical reverse recovery time (Note1)	$t_{rr}$	25	ns
Maximum reverse current @ $T_J=25\text{ }^\circ\text{C}$ at rated DC blocking voltage @ $T_J=150\text{ }^\circ\text{C}$	$I_R$	5 250	$\mu\text{A}$
Maximum instantaneous forward voltage at 3.0 A	$V_F$	0.9	V
Typical thermal resistance (Note2)	$R_{\theta JL}$	11	$^\circ\text{C/W}$
Operating junction temperature range	$T_J$	- 55 ---- + 150	$^\circ\text{C}$
Storage temperature range	$T_{STG}$	- 55 ---- + 150	$^\circ\text{C}$

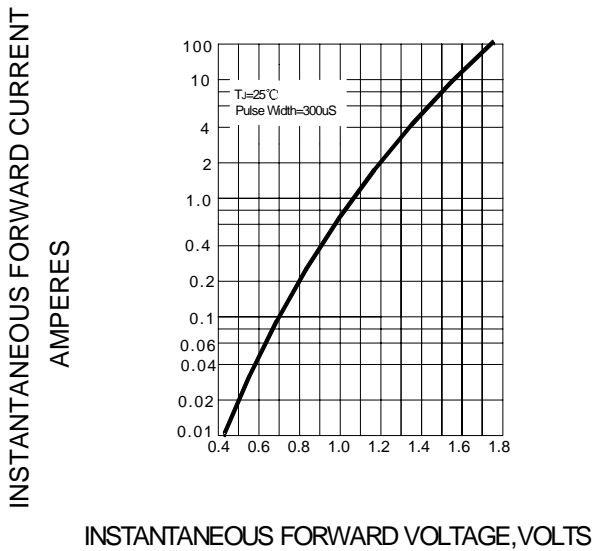
NOTE: 1. Measured with  $I_F=0.5\text{A}$ ,  $I_R=1\text{A}$ ,  $I_{rr}=0.25\text{A}$ .

2. Junction to lead.

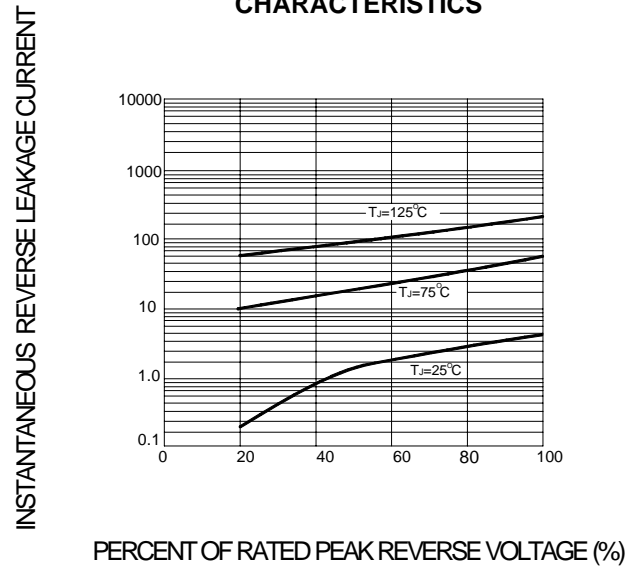


## Ratings AND Characteristic Curves

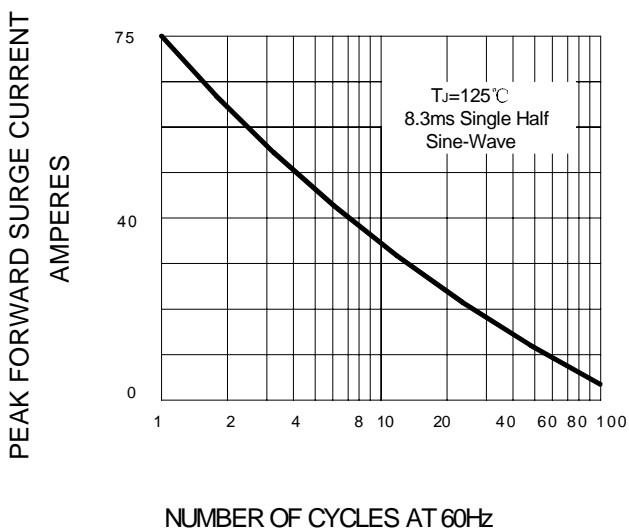
**FIG.1 – TYPICAL FORWARD CHARACTERISTIC**



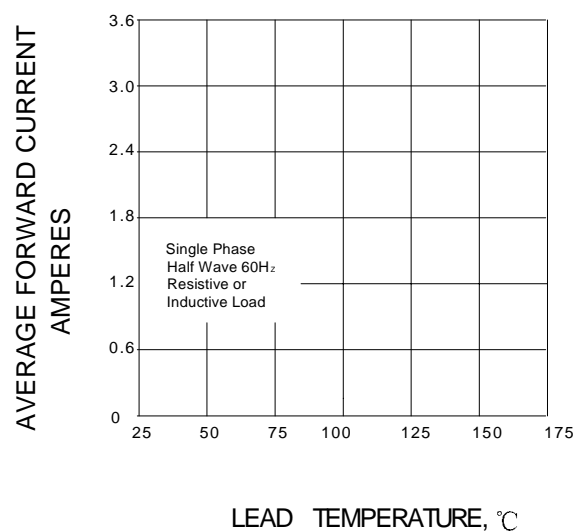
**FIG.2 -- TYPICAL REVERSE LEAKAGE CHARACTERISTICS**



**FIG.3 – PEAK FORWARD SURGE CURRENT**



**FIG.4 – FORWARD DERATING CURVE**



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